

Navajo Abandoned Uranium Mine Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.

Section 33 AUM Site

Navajo AUM Eastern Region

Prepared by:

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Contract: W91238-06-F-0083

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Part I Site Identification, Location and Status**Site Names and ID numbers as applicable****Mine ID:** 1040**Map ID:** E41b**CERCLIS:** NNN 000 908 748**NAMLRP:** NOT ASSIGNED**New Mexico Mining and Mineral Division ID:** NM0059**New Mexico Bureau of Geology and Mineral Resources:** NMMK0247**Local name / Aliases:** West Ranch (Railroad Land), Moe No. 5, Old Moe, Moe Mine, Moe #5, Moe decline**Chapter and local area:** Casamero Lake Chapter**Lat/Long:** 35.4906103257 N / -108.0166273 W**Nearby road and highway:** Route 19, Casamero Lake Loop Road**Local Post Office:** Prewitt, NM**Land Status: check one or more and provide ownership and contact information below**

Tribal Trust Land	<input type="checkbox"/>
Tribal Fee Land	<input type="checkbox"/>
Allotment	<input type="checkbox"/>
Fee land	<input type="checkbox"/>
Public lands	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Bureau of Land Mgmt	<input type="checkbox"/>
State	<input type="checkbox"/>

Ownership and contact information:

The mine site property is classified as private land owned by Lynn “Buddy” Elkins, but no residences were found within 0.25 miles of the site

Part II Site Observations

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None **0.25 miles to 4 miles:** None

Observed Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents.

Lucita Sardo lives near the mine and had relatives who formerly worked for Cobb Nuclear who operated either the Section 32 Mine and/or Section 33 Mine. The mine was closure was the result of a fatality at the mine.

Note information on mine ownership, period of operation, and type of mining operation.

The Section 33 mine consists of an area of 11,004.93 square meters and an undetermined extent of underground workings. Any historical information pertaining to mining operations and historical ownership of the mine site, other than Cobb Nuclear, appeared to be unclear.

Part III Type, number and reclamation status of mine features

Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.

Reclamation status of the mine sites are currently unknown. No visible signs of reclamation were observed. Numerous waste piles were observed at the site and some former unidentified workings. No adits or shafts were observed during the site visit.

Part IV Summary of radiological readings**Background Locations**

#1 16,630 cpm

#2 17,128 cpm

#3 16,882 cpm

Mine site: Section 33

- See Figures 1 and 2

Nearby Structure Perimeter

The Lucita Sardo residence had some materials (tarps and lumber) that were from the mine. Gamma radiation measurements on her property were approximately 12,000 cpm.

Describe any other radiological measurements:

A total of 1,550 gamma radiation measurements were collected from mine sites, ranging from 14,322 cpm to 140,917 cpm. The measurements are represented in Figures 1 and 2. A rock from a waste pile emitted over 800,000 cpm.

Part V Site sketch of all mine features and readings, including locations of all structures, sources of drinking water and any other important features and radiological readings.

Presented in Figures 1 and 2

Part VI Response Action Summary

Site Name(s): Section 33

Chapter: Casamero Lake

Decision Criteria

Is there an unreclaimed waste pile at the site? Yes

At what distance from the waste pile is the nearest residential structure located? 0.4 mile

At what distances from the waste pile are there potential drinking water sources? 0.8 mile

Is there a reclamation cap or sealed adit in place at the site? No

Is the cap/seal functionally intact? N/A

Is the cap/seal sufficiently degraded to create a concern about releases? N/A

At what distance from the cap/seal is the nearest domestic structure located? N/A

At what distance from the cap/seal is the nearest domestic drinking water source? N/A

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1. Section 33 Mine site, towards the north



Photo 2. Section 33 Mine site, towards the west, residence in background.



Photo 3. Section 33 Mine site, wooden hopper and pulverized waste rock pile located at southeast corner of mine



Photo 4. Section 33 Mine site, Uranium ore exhibiting over 800,000 cpm



Photo 5. Section 33 Mine site, pulverized waste rock piles.

Part VIII Contacts Reports and InformationName: Lynn "Buddy" ElkinsTitle or official role (if any) Property OwnerTelephone number 505-290-7707Information provided: Indicated that the property may be his or a relatives

Name Lucita SardoTitle or official role (if any) ResidentTelephone number PO Box 873, Prewitt NM 87045Information provided Lives near the site and relatives that worked at the mines

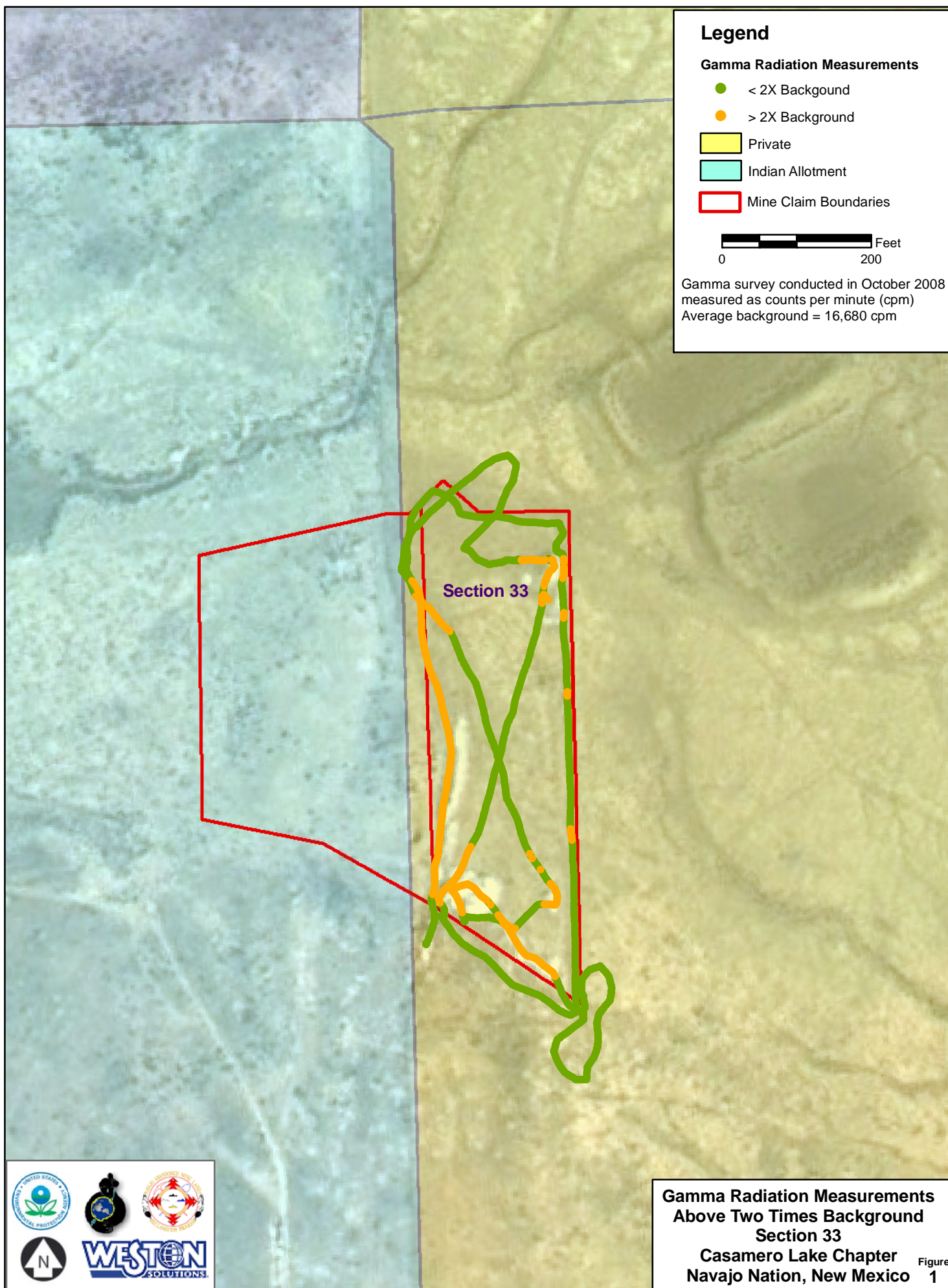
Name Stanley EdisonTitle or official role (if any) Navajo EPA Superfund ProgramAddress PO Box 2946, Window Rock, AZ 86515Telephone number 928-871-6861Information provided General Background and Contact/Access Information

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- 0 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

□ Mine Claim Boundaries

0 200 Feet

Gamma survey conducted in October 2008
measured as counts per minute

Section 33



Gamma Radiation Measurements
Section 33

Casamero Lake Chapter
Navajo Nation, New Mexico

Figure
2